
dvt Problems

1. It took the high school hockey team 5 hours to travel to a tournament in Thunder Bay. They travelled by bus and plane a total distance of 1320 km. If the bus averaged 40 km/h and the plane averaged 600 km/h, determine the time they spent travelling by plane?
2. A hovercraft travels over flat land at 40 km/h and over rough water at 10 km/h. If it takes 5.75 h to travel 185 km, then how far did it travel over land? How far did it travel over water?
3. Amy ran part of a 42 km marathon at an average speed of 10 km/h and walked the rest at an average speed of 6 km/h. She spent 1 h more time running than walking. How long did it take her to finish the marathon?
4. A survey crew took a canoe up the river and back, paddling for 10 h. They went at 4 km/h going upstream and at 12 km/h going downstream. How far upstream did they go?
5. A small plane, flying in the same direction as the wind, travelled 600 km in 2 h. The return trip, flying against the wind, took 3 h. Find the speed of the plane and the wind.
6. Two cruise ships are sailing toward each other from Caribbean islands that are 264 km apart. One ship travels 4 km/h faster than the other. If they both started at the same time, and meet after 6 hours, how fast is each ship travelling?
7. Martin left Kingston driving at 80 km/h on highway 401. Lesley followed 2 h later, driving in the same direction at 100 km/h. How far down the road will Lesley pass Martin?

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